628186 ATTACHMENT

CALCULATION OF SPECIFIC ACTIVITY OF 90Y LARELED COMPOUND (5,650,134, EXAMPLE 11)

O.16 mCi got ADDED TO HUL OF GUM CHELATING PEPTIDE (COMPOUND OF EX. 3).

ASSUME M.W. OF COMPOUND is CA. 2000 g.

THE NO, OF MOVES OF COMPOUND PRESENT IN

 $\frac{11 \, \mu L}{10^{6} \, \mu L/L} \times 9 \times 10^{-6} \, mol/L =$ $\frac{99 \times 10^{-6} \times 10^{-6} \, mol}{0FF} = \frac{10^{-10} \, mols}{0F \, compound}$

ASSUMING 2000 g. MW. ONE HAS

 $10^{-10} \text{ mol } \times 2000 \text{ y/ml} =$ $10^{-10} \times 2 \times 10^{3} = 2 \times 10^{-7} \text{ g}$ $= 2 \times 10^{-4} \text{ mg}$

SPECIFIC ACTIVITY IS THEW :

0,16 mCi = 16×10-2mCi = 8 mCi = 800 mCi = 2×10-4 mg = 10-2 mg. mg